

### ABSTRACT OF THE DISCLOSURE

Auxiliary relations are used to maintain a materialized view. The materialized view comprises results of some operation performed between two or more base relations of a parallel database management system comprising a plurality of nodes. The two or more base relations are distributed to the nodes according to some partitioning strategy. Each auxiliary relation is partitioned according to the join attribute in the materialized view definition. During join or other operations involving the relations, the auxiliary relations, not the base relations, are used to construct join results and to maintain the materialized view.

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